TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))		Docket No. 13273
In Re Application Of:	Yutaka Yokoyama  DEC 1 8 2001	
Serial No.	Filing Date Examiner	Group Art Unit
09/467,812	December 20, 1999 Unassigned	2713
Title:	<u> </u>	I
APPARATUS FOR AN	ID METHOD OF VARIABLE BIT RATE VIDEO CODING	RECEIVED DEC 2 1 200' Technology Center
	Address to: Assistant Commissioner for Patents Washington, D.C. 20231	RECEIVED DEC 2 1 2001 Technology Center 2600
	37 CFR 1.97(b)	<b>Ö</b>
of a national a	on Disclosure Statement submitted herewith is being filed within pplication; within three months of the date of entry of the nation an international application; or before the mailing date of a ver event occurs last.	nal stage as set forth in 37
	37 CFR 1.97(c)	
of a national a international a	on Disclosure Statement submitted herewith is being filed after application, or the date of entry of the national stage as set for a polication; or after the mailing date of a first Office Action but before the mailing date of either:	rth in 37 CFR 1.491 in an
1.	a Final Action under 37 CFR 1.113, or	
2.	a Notice of Allowance under 37 CFR 1.311,	
which	ever occurs first.	
Also submitted herewith is:		
☐ a certifi	cation as specified in 37 CFR 1.97(e);	. *
	OR	
	set forth in 37 CFR 1.17(p) for submission of an Informatio 7 CFR 1.97(c).	n Disclosure Statement
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TRANSMITTAL OF INFORMATION (Under 37 CFR 1.97()	·
In Re Application Of: Yutaka Yokoyama	OIPER
Serial No. Filing Date 09/467,812 December 20, 1	\(\vec{\pi}_2\)
Title: APPARATUS FOR AND METHOD OF VARIA	Payment of Fee icant elects to pay the fee set forth in 37 CFR 1.17(p))
_	Payment of Fee icant elects to pay the fee set forth in 37 CFR 1.17(p))
as described below. A duplicate copy o  Charge the amount of  Credit any overpayment.	authorized to charge and credit Deposit Account No. 19-1013/SSMP  of this sheet is enclosed.
Certificate of Transmission by Facsin  I certify that this document and authorization deposit account is being facsimile transmitted to States Patent and Trademark Office (Fax. No. ) on (Date)  Signature  Typed or Printed Name of Person Signing Cert	Certificate of Mailing by First Class Mail  I certify that this document and fee is being deposited on November 5, 2001 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.  Signature of Person Mailing Correspondence  Michelle Mustafa  Typed or Printed Name of Person Mailing Correspondence
*This certificate may only be used if paying deposit account.  Signature  Paul J. Esatto, Jr. Registration No. 30,749 SCULLY, SCOTT, MURPHY & PRESSER 400 Garden City Plaza Garden City, NY 11530 (516) 742-4343	Dated: November 5, 2001
PJE:dg cc:	

## **Translator's Report/Comments**

Your ref:

G1589 (13273)

Your order of (date):

In translating the above text we have noted the following apparent errors/unclear passages which we have corrected or amended:

Page/para/line*	Comment	
Parag 1/line 2	"Code quantity distribution" - this is a literal rendering of the Japanese, although we suspect "quantization" may be meant. According to our references the term quantization is usually rendered differently in Japanese.	

<sup>\*</sup> This identification refers to the source text. Please note that the first paragraph is taken to be, where relevant, the end portion of a paragraph starting on the preceding page. Where the paragraph is stated, the line number relates to the particular paragraph. Where no paragraph is stated, the line number refers to the page margin line number.

UNITED STATES PATENT AND TRADEMARK OFFICE
VERIFICATION OF A TRANSLATION

I, the below named translator, hereby declare that:

My name and post office address are as stated below;

That I am knowledgeable in the English language and in the Japanese language, and that I

believe the English translation of the marked portion of the attached Japanese document is

true and complete.

I hereby declare that all statements made herein of my own knowledge are true and that all

statements made on information and belief are believed to be true; and further that these

statements were made with the knowledge that willful false statements and the like so made

are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United

States Code and that such willful false statements may jeopardize the validity of the

application or any patent issued thereon.

Date: October 11, 2001

Full name of the translator:

Nigel David CROSSAN

Signature of translator:

Myers. Corne

For and on behalf of RWS Group plc

Post Office Address:

Europa House, Marsham Way, Gerrards Cross, Buckinghamshire,

England.

The applicants have made assertions in a written opinion:

"As mentioned in the previous "written opinion" (submitted on May 14, 2001), as large code quantities are assigned to images with a high degree of encoding difficulty and small code quantities are assigned to images with a low degree of encoding difficulty, during code quantity distribution based on an average degree of difficulty, excessively allocated code is barely suppressed when images with a low degree of encoding difficulty are input directly after there has been a succession of images with a high degree of encoding difficulty, and the image quality is degraded.

With this in mind, in the invention according to the the deletion of excessively application, allocated code is controlled also using the degree of directly preceding image units by complexity of employing a degree of encoding difficulty vicinity of the encoding times. In other words, in the encoder etc. according to the present invention, degree of difficulty of encoding is measured on the basis of encoded images, and, on the basis of degree of difficulty of the encoding of those images whose encoding has been completed, the degree difficulty of encoding of images which are to be input

from there onwards is inferred and the allocation of code quantities is carried out on the basis of these degrees of difficulty.

More specifically, as disclosed in paragraphs [0088] to [0090] of the specification according to the present application, the degree of complexity of the GOP (Group of Picture) units, is calculated on the basis of the results of the encoding and this is taken as the degree of complexity for the next GOP code allocation. In this update processing of the degree of complexity, the degree of complexity of the directly preceding GOP is taken as an assumed value without further processing (the code quantity allocation is carried out using the degree of complexity of the directly preceding image unit)."

The configuration corresponding to the above is not disclosed in all of the claims, for example it cannot be understood from claim 1 that the objects which are encoded within a set quantization range are images which are to be input from there onwards.

We would like the assertions of the written opinion to be based on what is disclosed in the claims.

Controlling the quantization range of the next frame

using the frame information of the previous frame is disclosed in cited documents 1-4. If the commonality of the quantization control problem is considered, it is possible to use the configuration(s) of cited documents 5-7.

## List of cited documents, etc.

- 1. Japanese Laid-open Patent Application H10-215460
- 2. Japanese Laid-open Patent Application H10-155152
- 3. Japanese Laid-open Patent Application H10-23433
- 4. Japanese Laid-open Patent Application H10-164588